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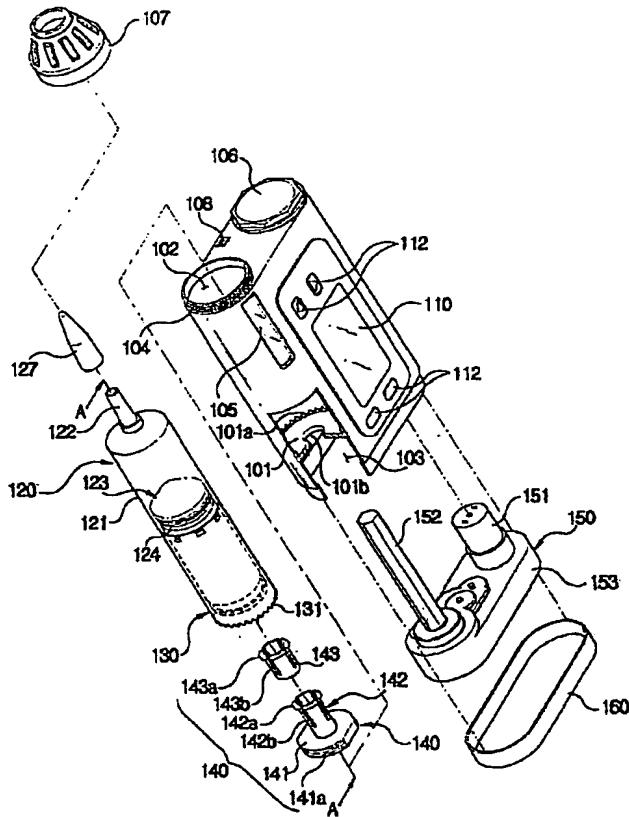
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(54) Title: INSULIN PUMP



(57) Abstract: The present relates to an automatic insulin pump, which allows the rotary shaft only to rotate piston advancing means to remove vertical load applied to a rotary shaft, thereby improving durability thereof. The insulin pump includes: an injector having a syringe for containing insulin therein, and a piston inserted into the rear end of the syringe for providing the syringe with insulin discharge pressure; a housing having an injector receiving space formed in an appropriate position thereof, the injector receiving space having a partition wall formed at the rear end thereof; a rotary shaft having a non-circular section and a predetermined length; power supply means for rotating the rotary shaft at a predetermined speed; a push plate assembly for providing the piston with ahead power by pushing the piston, the push plate assembly having a disk part having a male screw formed on the outer circumferential surface thereof and a coupling hole axially coupled with the rotary shaft at the central portion thereof to allow for forward and backward movement of the rotary shaft, which passes through the coupling hole; and a hollow cylindrical type push plate case inserted into the injector receiving space of the rear end of the syringe, for the piston to pass therethrough, the push plate case having a female screw formed on the inner circumferential surface thereof to be coupled with the male screw of the disk part for allowing the disk part to carry out a spirally forward and backward movement.



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